CD130 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	CD130, Recombinant Protein
Full Product Name	Human CD130 Protein, hFc Tag
Product Gene Name	CD130 recombinant protein
Product Synonym Names	CD130; CDW130; GP130; IL-6RB
Sequence	CD130 (Glu23-Glu 619) + hFc (Glu99-Ala 330)
Host	HEK293 cells
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose is added as protectants before lyophilization.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -80 degree C for 12 months (Avoid repeated freezing and thawing)
Molecular Weight	103,537 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (55230923..55290821, complement). Location: 5q11.2
OMIM	600694
3D Structure	ModBase 3D Structure for P40189
Origin	Human
Reconstitution	Reconstitute with deionized water
Tag	C-Human Fc
Related Product Information for CD130 recombinant protein	The protein encoded by this gene is a signal transducer shared by many cytokines, including interleukin 6 (IL6), ciliary neurotrophic factor (CNTF), leukemia inhibitory factor (LIF), and oncostatin M (OSM). This protein functions as a part of the cytokine receptor complex. The activation of this protein is dependent upon the binding of cytokines to their receptors. vIL6, a protein related to IL6 and encoded by the Kaposi sarcoma-associated herpesvirus, can bypass the interleukin 6 receptor (IL6R) and directly activate this protein. Knockout studies in mice suggest that this gene plays a critical role in regulating myocyte apoptosis. Alternatively spliced transcript variants have been described. A related pseudogene has been identified on chromosome 17.
Other Notes	Small volumes of CD130 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD130 purchase	MBS188312 is a recombinant protein targeting CD130. Also known as Human CD130 Protein, hFc Tag. Host: HEK293 cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD130. It may not necessarily be applicable to this product.

NCBI GI #	300244535
NCBI GeneID	3572
NCBI Accession #	NP_001177910.1
UniProt Primary Accession #	P40189
UniProt Secondary Accession #	Q5FC04; Q9UQ41; A0N0L4

UniProt Related Accession #	P40189
GenBank Nucleotide #	NM_001190981.1
NCBI Official Full Name	interleukin-6 receptor subunit beta isoform 3
NCBI Official Synonym Full Names	interleukin 6 signal transducer (gp130, oncostatin M receptor)
NCBI Official Symbol	IL6ST
NCBI Official Synonym Symbols	CD130; GP130; CDW130; IL-6RB
UniProt Protein Name	Interleukin-6 receptor subunit beta
UniProt Synonym Protein Names	CDw130; Interleukin-6 signal transducer; Membrane glycoprotein 130; gp130; Oncostatin-M receptor subunit alpha
Protein Family	Interleukin-6 receptor
UniProt Gene Name	IL6ST
UniProt Synonym Gene Names	IL-6 receptor subunit beta; IL-6R subunit beta; IL-6R-beta; IL-6RB; gp130
UniProt Entry Name	IL6RB_HUMAN
NCBI Protein Information	interleukin-6 receptor subunit beta; CD130 antigen; IL-6R subunit beta; membrane glycoprotein 130; IL-6 receptor subunit beta; membrane glycoprotein gp130; interleukin receptor beta chain; oncostatin-M receptor subunit alpha; gp130 of the rheumatoid arthr
NCBI Summary for CD130	The protein encoded by this gene is a signal transducer shared by many cytokines, including interleukin 6 (IL6), ciliary neurotrophic factor (CNTF), leukemia inhibitory factor (LIF), and oncostatin M (OSM). This protein functions as a part of the cytokine receptor complex. The activation of this protein is dependent upon the binding of cytokines to their receptors. vIL6, a protein related to IL6 and encoded by the Kaposi sarcoma-associated herpesvirus, can bypass the interleukin 6 receptor (IL6R) and directly activate this protein. Knockout studies in mice suggest that this gene plays a critical role in regulating myocyte apoptosis. Alternatively spliced transcript variants encoding distinct isoforms have been described. A related pseudogene has been identified on chromosome 17. [provided by RefSeq, Jul 2010]
UniProt Comments for CD130	gp130: gp130 is a ubiquitously expressed type I cytokine family receptor. The receptor systems for IL6, LIF, OSM, CNTF, IL11 AND CT1 utilize gp130 for initiating signal transmission. Binds to IL6/IL6R (alpha chain) complex, resulting in the formation of high-affinity IL6 binding sites, and transduces the signal. Does not directly bind IL6. May have a role in embryonic development. Contains 5 fibronectin type III domains and 1 immunoglobulin-like C2-type domain. Two alternatively spliced isoforms have been described. Protein type: Membrane protein, integral; Receptor, cytokine Chromosomal Location of Human Ortholog: 5q11.2 Cellular Component: extracellular space; cell soma; membrane; oncostatin-M receptor complex; dendrite; plasma membrane; extracellular region; interleukin-6 receptor complex; external side of plasma membrane Molecular Function: interleukin-11 binding; protein homodimerization activity; interleukin-27 receptor activity; leukemia inhibitory factor receptor activity; oncostatin-M receptor activity; interleukin-6 receptor activity; interleukin-11 receptor activity; protein binding; interleukin-6 receptor binding; interleukin-6 binding; growth factor binding; ciliary neurotrophic factor receptor activity; ciliary neurotrophic factor receptor binding Biological Process: glycogen metabolic process; viral reproduction; cytokine and chemokine mediated signaling pathway; leukemia inhibitory factor signaling pathway; positive regulation of tyrosine phosphorylation of Stat3 protein; positive regulation of osteoblast differentiation; positive regulation of tyrosine phosphorylation of Stat1 protein; regulation of Notch signaling pathway; positive regulation of acute inflammatory response; response to cytokine stimulus; positive regulation of cell proliferation; positive regulation of T cell proliferation; positive regulation of adaptive immune response; positive regulation of astrocyte differentiation; negative regulation of apoptosis
Research Articles on CD130	**1.** Data indicate that active cruzipain completely abrogated the STAT3 phosphorylation and enzymatically cleaved gp130 ectodomain.

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